

DN A01424

USSN 10/681,419

Amendment w/RCE filed Nov14, 2007

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PATENT

CLAIM LISTING / AMENDMENTS

This listing of claims will replace all prior versions, and listings, of claims in the present patent application:

1. (Currently Amended) A method for abating waste oxide gases from a waste oxide gas stream, the method comprising:

(a) providing a first industrial process, the first industrial process producing a waste oxide gas stream which is otherwise destined to be vented, or treated with a waste oxide gas abatement system and then vented, to the atmosphere, the waste oxide gas stream comprising at least one waste oxide gas selected from the group consisting of nitrogen oxides, sulfur oxides and carbon oxides;

(b) providing a second industrial process selected from the group consisting of oxidation of hydrocarbons, partial oxidation of hydrocarbons, oxidative dehydrogenation of hydrocarbons, and ammoxidation of hydrocarbons, and capable of abating the quantity of said waste oxide gas stream, from the first industrial process, when said waste oxide gas stream is fed to said second industrial process as a feed stream; and

(c) feeding at least a portion of said waste oxide gas stream, from the first industrial process, as a feed stream, to said second industrial process.

2. (Previously Presented) The method for abating waste oxide gases from a waste oxide gas stream according to claim 1 wherein the first industrial process is chosen from the group consisting of a chemical manufacturing process, a combustion process, a process comprising a gas turbine, a high-temperature industrial manufacturing process, a process comprising an air compressor, a co-generation process, and a [[traditional]] waste oxide abatement system.

Claim 3 (Cancelled).

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4. (Currently Amended) The method for abating waste oxide gases from a waste oxide gas stream according to claim 1 wherein the second industrial process is a process having one or more reaction steps which involve [[comprising]] at least one composition selected from the group consisting of hydrogen, carbon oxides, nitrogen oxides, ammonia, hydrocarbons, and oxygen.